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Information Disclosure Citation  
in an Application

PART OF  
20040901 IDS

Page 1 of 11

Application No.	Applicant(s)	
10/723,107	Group Art Unit	Mohammed N. Islam et al.
Docket Number	2873	Filing Date
074036.0125		November 25, 2003

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
D/S	A 4,011,009	03/08/77	Lama, et al.	350	162 R	05/27/75
	B 4,900,119	02/13/90	Hill, et al.	350	96.15	04/01/88
	C 5,103,340	04/07/1992	Dono et al.	385	46	08/07/1991
	D 5,212,743	05/18/93	Heismann	385	11	02/12/92
	E 5,291,502	03/01/1994	Pezeshki et al.	372	20	09/04/1992
	F 5,311,360	05/10/94	Bloom, et al.	359	572	04/28/92
	G 5,343,542	08/30/1994	Kash et al.	385	31	04/22/1993
	H 5,459,610	10/17/95	Bloom, et al.	359	572	05/20/93
	I 5,500,761	03/19/96	Goossen, et al.	359	290	01/27/94
	J 5,654,819	08/05/97	Goossen, et al.	359	291	01/07/95
	K 5,659,418	08/19/97	Yurke	359	290	02/05/96
	L 5,661,592	08/26/97	Bornstein, et al.	359	291	01/07/95
	M 5,701,193	12/23/97	Vogel, et al.	359	290	02/21/96
↓	N 5,745,271	04/28/98	Ford, et al.	359	130	07/31/96

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
D/S	O 0 667 548 A1	16.08.1995	EP	G02B	26/02	X	
D/S	P 0 689 078 A1	27.12.1995	EP	G02B	26/08	X	

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
D/S	Q K. E. Petersen, "Micromechanical Light Modulator Array Fabricated On Silicon," Applied Physics Letters, Vol. 31, No. 8, pp. 521-523	10/15/77
	R C. Marxer, et al., "Megahertz Opto-Mechanical Modulator," Elsevier Science S.A., pp. 46-50	1996
	S C. M. Ragdale, et al., "Integrated Three Channel Laser and Optical Multiplexer for Narrowband Wavelength Division Multiplexing," Electronics Letters, Vol. 30, No. 11, pp. 897-898	05/26/94
	T K. O. Hill, et al., "Narrow-Bandwidth Optical Waveguide Transmission Filters," Electronic Letters, Vol. 23, No. 9, pp. 465-466	04/23/87
	U C. M. Ragdale, et al., "Integrated Laser and Add-Drop Optical Multiplexer for Narrowband Wavelength Division Multiplexing," Electronic Letters, Vol. 28, No. 8, pp. 712-714	04/09/92
↓	V K. Aratani, et al., "Process and Design Considerations for Surface Micromachined Beams for A Tunable Interferometer Array in Silicon," Handbook of Physics, pp. 230-235	1993

EXAMINER	DATE CONSIDERED
DAVID SPECTOR PRIMARY EXAMINER	12/20/2004

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. Patent and Trademark Office

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		074036.0125	2873	November 25, 2003	

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
D/S	A 5,751,469	05/12/98	Arney, et al.	359	291	02/01/96
	B 5,774,252	06/30/1998	Lin et al.	359	224	04/19/1996
	C 5,825,528	10/20/98	Goossen	359	291	12/26/95
	D 5,835,255	11/10/98	Miles	359	291	05/05/94
	E 5,841,579	11/24/98	Bloom, et al.	359	572	06/07/95
	F 5,850,492	12/15/98	Morasca, et al.	385	11	11/06/96
	G 5,870,221	02/09/99	Goossen	359	290	07/25/97
	H 5,909,303	06/01/1999	Trezza et al.	359	248	01/03/1997
	I 5,914,804	06/22/99	Goossen	359	291	01/28/98
	J 5,920,391	07/06/1999	Grasdepot et al.	356	352	04/22/1998
	K 5,943,155	08/24/99	Goossen	359	247	08/12/98
	L 5,943,158	08/24/99	Ford, et al.	359	295	05/05/98
	M 5,943,454	08/24/99	Aksyuk, et al.	385	22	08/15/97
↓	N 5,949,571	09/07/99	Goossen, et al.	359	291	07/30/98

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
D/S	O 0 788 005 A2	06.08.1997	EP	G02B	26/02	X	
	P 99/34484	08.07.1999	WO	H01S		X	
↓	Q 01/09995 A1	08.02.2001	WO	H01S	5/00	X	

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
D/S	R O. Solgaard, et al., "Deformable Grating Optical Modulator," Optics Letters, Vol. 17, No. 9, pp. 688-690	05/01/92
	S W.R. Wiszniewski, et al., "Mechanical Light Modulator Fabricated On A Silicon Chip Using Simox Technology, pp. 1027-1030	Undated
	T M.W. Chbat, "High-spectral-efficiency transmission systems," OFC 2000, Baltimore, MD, pp TuJ1-1, 134-136	
	U J.W. Bayless, et al., "The Specification and Design of Bandlimited Digital Radio Systems," IEEE Transactions on Communications, Vol. COM-27 (12): pp. 1763-1770	
↓	V D.E. Sene, et al. "Polysilicon Micromechanical Gratings for Optical Modulation," Elsevier Vol. Sensors and Actuators (A 57), pp. 145-151	

EXAMINER	DAVID SPECTOR PRIMARY EXAMINER	DATE CONSIDERED
12/26/2004		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		

PART OF  
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Page 3 of 11

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**U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
DS	A	5,949,801	09/07/1999	Tayebati	372	20	07/22/1998
	B	5,960,133	09/28/99	Tomlinson	385	18	01/27/98
	C	5,974,207	10/26/99	Aksyuk, et al.	385	24	12/23/97
	D	5,986,796	11/16/99	Miles	359	260	11/05/96
	E	5,999,319	12/07/1999	Castracane	359	573	04/29/1998
	F	6,002,513	12/14/99	Goossen, et al.	359	291	06/22/98
	G	6,025,950	02/15/2000	Tayebati et al.	359	244	07/27/1998
	H	6,041,071	03/21/2000	Tayebati	372	64	09/27/1996
	I	6,123,985	09/26/2000	Robinson et al.	427	162	10/28/1998
	J	6,204,946 B1	03/20/2001	Aksyuk et al.	359	131	11/12/97
	K	6,201/0055147 A1	12/27/2001	Little et al.	359	293	03/20/2001
	L	6,271,052 B1	08/07/2001	Miller et al.	438	50	10/19/2000
W	M	6,301,274 B1	10/09/2001	Tayebati et al.	372	20	03/30/1999

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
DS	N	01/67156 A3	13.09.2001	WO	G02B	26/00	X	
	O	01/67157 A2	13.09.2001	WO	G02B	26/00	X	
	P	01/67158 A2	13.09.2001	WO	G02B	26/00	X	
	Q	01/67171 A2	13.09.2001	WO	G02F	1/21	X	
W	R	01/75497 A1	11.10.2001	WO	G02B	6/35	X	

**NON-PATENT DOCUMENTS**

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
DS	S	D.M. Burns, et al., "Micro-Electro-Mechanical Variable Blaze Gratings," IEEE 10th Annual International Workshop on Micro Mechanical Systems, pp. 385-391	1997
	T	L.Y. Lin, et al., "Micromachined polarization-state-controller and its application to polarization-mode dispersion compensation," OFC 2000, Baltimore, MD, pp. ThQ3-1, 244-246	2000
	U	J.W. Bayless, et al., "High Density Digital Data Transmission," National Telecommunications Conference, Dallas, TX, pp. 1-6	1976
W	V	R.W. Corrigan, et al., "17.3: Calibration of a Scanned Linear Grating Light Value□ Projection System," www.siliconlight.com	1999

EXAMINER	DAVID SPECTOR PRIMARY EXAMINER	DATE CONSIDERED
		12/20/2004

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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**U.S. PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
D/S	A 6,341,039 B1	01/22/2002	Flanders et al.	359	578	08/25/2000
	B 6,373,632 B1	04/16/2002	Flanders	359	578	08/25/2000
	C 6,381,387 B1	04/30/2002	Wendland, Jr.	385	37	08/02/2000
	D 2002/0105697 A1	08/08/2002	Fabiny	359	128	02/12/2002
	E 6,439,728 B1	08/27/2002	Copeland	359	515	08/28/2001
	F 6,407,851 B1	06/18/2002	Islam et al.	359	291	08/01/2000
	G 2002/0035193 A1	02/20/2003	Islam et al.	359	290	08/22/2002
	H 2003/0081878 A1	05/01/2003	Joyner et al.	385	14	10/08/2002
✓	I 2003/0086465 A1	05/08/2003	Peters et al.	372	50	10/30/2002
✓	J 2003/0095736 A1	05/22/2003	Kish, JR. et al.	385	14	10/08/2002

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
D/S	K WO 01/37021 A1	14.11.2000	PCT	G02B	6/42	X	
	L WO 01/79795 A1	22.03.2001	PCT	G01J	3/28	X	
	M WO 02/056521 A1	02.11.2001	PCT	H04J	14/00	X	
✓	N WO 02/059655 A2	20.12.2001	PCT	G02B		X	

**NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
D/S	O SLM "Grating Light Valve Technology," <a href="http://www.siliconlight.com">www.siliconlight.com</a> , 2 pages, "Calibration of a Scanned Linear Grating Light Valve Projection System" SID Symposium, San Jose CA	May 1999
	P R.W. Corrigan, et al., "Grating Light Valve Technology for Projection Displays," Presented at the International Display Workshop, Kobe, Japan, Paper Number LAD5-1, 4 pages Proceedings of the Society for Information Display Symposium Digest, vol.29, p. 29	12/09/1998
	Q M. Ming, et al., "Principles and Applications of Optical Communications," Irwin, pp. 468 & 470	1996
	R SLM "Silicon Light Machines™ – Grating Light Valve™ Technology Brief," <a href="http://www.siliconlight.com">www.siliconlight.com</a> ver. C, 8 pages	06/2001
	S R.W. Corrigan, et al., "An Alternative Architecture for High Performance Display," <a href="http://www.siliconlight.com">www.siliconlight.com</a> , SLM, Presented at the 141 <sup>st</sup> SMPTE Technical Conference and Exhibition, New, York, NY, 5 pages	11/20/1999
	T A. Willner, "WDM Systems 1," OFC '97, Dallas, TX, pp. TuJ, 43-45	1997
	U C. Pu, et al., "Micromachined Integrated Optical Polarization-State Rotator," IEEE Photonics Technology Letters, Vol. 12 (10), pp. 1358-1360	10/2000
EXAMINER	DAVID SPECTOR PRIMARY EXAMINER	DATE CONSIDERED 12/20/2004

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<b>A</b>						

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<b>B</b>	WO 02/06860 A1	11.07.2001	PCT	G02B	5/18	X	
<b>C</b>	WO 02/10822 A1	31.07.2001	PCT	G02B	6/34	X	
<b>D</b>	WO 02/21191 A1	07.09.2001	PCT	G02B	27/10	X	
<b>E</b>	WO 02/50588 A1	20.12.2001	PCT	G02B	6/26	X	

**NON-PATENT DOCUMENTS**

DOCUMENT (Including Author, Title, Source, and Pertinent Pages)		DATE
<b>F</b>	D.T. Amm, et al., "5.2: Grating Light Valve Technology: Update and Novel Applications," Presented at Society for Information Display Symposium, Anaheim, CA, pp. 1-4	1999
<b>G</b>	D.M. Burns, et al., "Development of Micromechanical Variable Blaze Gratings," Elsevier Science S.A., vol. Sensors and Actuators, pp. 7-15	1998
<b>H</b>	C.K. Madsen, et al., "A Tunable Dispersion Compensating MEMS All-Pass Filter," IEEE Photonics Technology Letters, Vol. 12 (6), pp. 651-653	2000
<b>I</b>	J.E. Ford, et al., "Passband-Free Dynamic WDM Equalization," ECOC '98, Madrid, Spain, pp. 317-318	1998
<b>J</b>	K.W. Goossen, et al., "Silicon Modulator Based on Mechanically-Active Anti-Reflection Layer with 1 Mbit/sec Capability for Fiber-in-the-Loop Applications," IEEE Photonics Technology Letters, Vol. 6 (9), pp. 1119-1121	1994
<b>K</b>	L.Y. Lin, et al., "Angular-Precision Enhancement in Free-Space Micromachined Optical Switches," IEEE Photonics Technology Letters, Vol. 11 (10), pp. 1253-1255	1999
<b>L</b>	L.Y. Lin, et al., "Free-Space Micromachined Optical Switches with Submillisecond Switching Time for Large-Scale Optical Crossconnects," IEEE Photonics Technology Letters, Vol. 10 (4), pp. 525-527	1998
<b>M</b>	L.Y. Lin, et al., "Optical Crossconnects for High-capacity Lightwave Networks," Journal of High Speed Networks, pp. 17-34	1999
<b>N</b>	E.P. Furlani, et al., "Analysis of grating light valves with partial surface electrodes," American Institute of Physics, Vol. 83 (2), pp. 629-634	1998
<b>O</b>	E.P. Furlani, et al., "Theory and simulation of viscous damped reflection phase gratings," J. Phys. D: Appl. Phys., Vol. 32, pp. 412-416	1999
<b>P</b>	K. Aratani, et al., "Surface micromachined tuneable interferometer array," Sensors and Actuators, Vol. 43, pp. 17-23	1994
<b>Q</b>	R.T. Howe, et al., "Polycrystalline Silicon Micromechanical Beams," Journal Electrochemical Society," Vol. 130 (6), pp. 1420-1423	1983
<b>R</b>	S.R. Mallinson, "Wavelength-selective filters for single-mode fiber WDM systems using Fabry-Perot Interferometers," Applied Optics, Vol. 26 (3), pp. 430-436	1987

EXAMINER	DAVID SPECTOR PRIMARY EXAMINER	DATE CONSIDERED
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U.S. PATENT DOCUMENTS

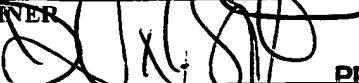
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FOREIGN PATENT DOCUMENTS

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B						

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
C	L.Y. Lin, et al., "Optical-layer Networking: Opportunities for and Progress in Lightwave Micromachines," OFC 2000, Baltimore, MD, pp. 1-88	2000
D	Burnett et al., "Diffraction and Interference," in E. U. Condon and H. Odishaw, eds., <u>Handbook of Physics</u> (McGraw-Hill, New York, Toronto, and London), pp. 6-102 and 6-103	1958
E	"Polarization Mode Dispersion (PMD)," Cables & Components Technical Papers, <a href="http://www.usa.alcatel.com/cc/techprs/fnlpmid2.htm">http://www.usa.alcatel.com/cc/techprs/fnlpmid2.htm</a>	2000
F	Curtis Menyuk, University of Maryland, Baltimore County "PMD in Optical Transmission System," Menyuk tutorial, OFC 2000, pp. 78-97 specifically pp. 92-94	03/2000
G	Agrawal, "Fiber-Optic Communication Systems," A Wiley-Interscience Publication, The Institute of Optics University of Rochester NY, pp. 284-360	1997
H	Ford et al., "Fiber-Coupled Variable Attenuator Using a MARS Modulator," Invited Paper, SPIE, Vol. 3226, pp. 86-93	1997
I	Sadot et al., "Tunable Optical Filters for Dense WDM Networks," IEEE Communications Magazine, pp. 50-55	12/1998
J	Goossen, "MEMS-Based Variable Optical Interference Device," IEEE, Invited MB1, pp. 17-18	08/2000
K	Walker et al., "Mechanical Anti-Reflection Switch (MARS) Device for Fiber-In-the-Loop Applications," Invited FA1, pp. 59-60	Undated
L	Jerman, "Miniature Fabry-Perot Interferometer Micromachined in Silicon for use in Optical Fiber WDM Systems," Transducers '91, International Solid-State Conference on Sensors and Actuators, pp. 372-375	1991
M	Wu et al., "Widely and Continuously Tunable Micromachined Resonant Cavity Detector with Wavelength Tracking," IEEE Photonics Technology Letters, Vol. 8, No. 1, pp. 98-99	1991
N	Vail et al., "GaAs micromachined widely tunable Fabry-Perot Filters," Electronics Letters, Vol. 31, No. 3, pp. 228-229	01/1996
O	Vail et al., "High performance micromechanical tunable vertical cavity surface emitting lasers," Electronics Letters, Vol. 32, No. 20, 2 pages	09/26/1996
P	Tayebati et al., "Microelectromechanical tunable filter with stable half symmetric cavity," Electronics Letters, Vol. 34, No. 20, pp. 1967-1968	10/01/1998
Q	Tayebati et al., "Microelectromechanical tuneable filters with 0.47 nm linewidth and 70 nm tuning range," Electronics Letters, Vol. 34, No. 1, 2 pages	01/08/1998
R	Tayebati et al., "Widely Tunable Fabry-Perot Filter Using Ga(A1)As-A1O <sub>x</sub> Deformable Mirrors," IEEE Photonics Technology Letters, Vol. 10, No. 3, pp. 394-396	03/1998

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12/20/2004

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B						

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
C	Tran et al., "Surface Micromachined Fabry-Perot Tunable Filter," IEEE Photonics Technology Letters, Vol. 8, No. 3, pp. 393-395	03/1996
D	Burns et al., "Optical beam steering using surface micromachined gratings and optical phased arrays," SPIE, Vol. 3131, pp. 99-110	Undated
E	Burns et al., "Designs to improve polysilicon micromirror surface topology," SPIE, Vol. 3008, pp. 100-110	1997
F	"1-D vs. 2-D vs. 3-D MEMS Optical Switch Architectures," Network Photonics, pp. 1-3	Undated
G	"CrossWave™ A Reliable MEMS-Based Optical Switch, Network Photonics, pp. 1-4	Undated
H	Ford et al, "Micromechanical Fiber-Optic Attenuator with 3 $\mu$ s Response," Journal of Lightwave Technology, Vol. 16, No. 9, pp. 1663-1670	09/1998
I	Walker et al., "Fabrication of a Mechanical Antireflection Switch for Fiber-to-the-Home Systems," Journal of Microelectromechanical Systems, Vol. 5, No. 1, pp. 45-51	03/1996
J	Goossen et al., "Micromechanical Gain Slope Compensator for Spectrally linear Optical Power Equalization," IEEE Photonics Technology Letters, Vol. 12, No. 7, pp. 831-833	07/2000
K	Goossen et al., "Integrated mechanical anti-reflection switch (MARS) device for fiber-to-the-home applications," <a href="http://mirlynweb.lib.umich.edu/WebZ/FETCH?sessionid=01-35557-462149016&amp;recno=13&amp;re">http://mirlynweb.lib.umich.edu/WebZ/FETCH?sessionid=01-35557-462149016&amp;recno=13&amp;re</a>	05/08/2002
L	"ELASTIC-45 tunable interferometer component," Solus, Preliminary Datasheet and applications	Undated
M	Mecozzi, et al., "A simple compensator for high order polarization mode dispersion effects," AT&T Labs Research, 192/WL2-1, 3 pages	Undated
N	Chbat, "Mitigation of polarization mode dispersion," Alcatel USA, Optical Networks Division, 0-7803-5634-9/99 IEEE, 2 pages	© 1999
O	Pan, et al., "Chirp-Free Tunable PMD Compensation using Hi-Bi Nonlinearly-Chirped FBGs in a Dual-Pass Configuration, Dept. of Electrical Engineering-Systems, University of Southern California, ThH2-1/113, 3 pages	Undated
P	Roy et al., "A simple dynamic polarization mode dispersion compensator," Alcatel Corporate Research Center, TuS4-1/275, 3 pages	Undated
Q	Takahashi, et al., "Automatic compensation technique for timewise fluctuating polarisation mode dispersion in inline amplifier systems," Electronics Letters, Vol. 30, No. 4, 2 pages	02/17/1994

EXAMINER	DAVID SPECTOR PRIMARY EXAMINER	DATE CONSIDERED
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**NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
<b>C</b>	Noé et al, "Endless Polarization Control Systems for Coherent Optics," 0733-8724/88/0700-1999, IEEE, Journal of Light Technology, Vol. 6, No. 7, 9 pages	07/1988
<b>D</b>	Heismann, "Analysis of a Reset-Free Polarization Controller for Fast Automatic Polarization Stabilization in Fiber-optic Transmission Systems," IEEE, Journal of Lightwave Technology, Vol. 12, No. 4, 10 pages	04/1994
<b>E</b>	Sandel et al., "Automatic polarisation mode dispersion compensation in 40 Gbit/s optical transmission system, "Electronics Letters, Vol. 34, No. 23, 2 pages	11/12/1998
<b>F</b>	Pua, et al., "An Adaptive First-Order Polarization-Mode Dispersion Compensation System Aided by Polarization Scrambling: Theory and Demonstration," 0733-8724/00, IEEE, Journal of Lightwave Technology, Vol. 18, No. 6,	06/2000
<b>G</b>	Kudou, et al., "Theoretical Basis of Polarization Mode Dispersion Equalization up to the Second Order," 0733-8724/00, IEEE, Journal of Lightwave Technology, Vol. 18, No. 4 pages	04/2000
<b>H</b>	Kogelnik, et al., "Jones matrix for second-order polarization mode dispersion," Bell Labs, 0146-9592/00/010019-03, Optical Society of America, Optics Letters, Vol. 25, No. 1	01/01/2000
<b>I</b>	Noé et al., "Polarisation mode dispersion compensation at 20 Gbit/s with fibre-based distributed equaliser," Electronics Letters, Vol. 34, No. 25, 2 pages	12/10/1998
<b>J</b>	Watley et al., "Compensation of polarisation-mode dispersion exceeding one bit period using single high-birefringence fibre, " Electronics Letters, Vol. 35, No. 13, 2 pages	06/24/1999
<b>K</b>	Sunnerud, et al., "Analytical Theory for PMD-Compensation," 1041-1135/00, IEEE Photonics Technology Letters, Vol. 12, No. 1, 3 pages	01/2000
<b>L</b>	LeFevre, "Single-Mode Fibre Fractional Wave Devices and Polarisation Controllers," Electronics Letters, Vol. 16, No. 20, 3 pages	09/25/1980
<b>M</b>	Winters, et al., "Experimental Equalization Polarization dispersion," 1041-1135/90/0800-0591, IEEE Photonics Technology Letters, Vol. 2, No. 8, 3 pages	08/1990
<b>N</b>	Chbat et al., "Long Term Field Demonstration of Optical PMD Compensation on an Installed OC-192 Link," Alcatel USA, Optical Networks, PD12-1, 3 pages	Undated
<b>O</b>	Girard, et al., "PDM: The New Telecommunication Frontier Emerges," Lasers & Optronics, Fiberoptics, 6 pages	02/1997
<b>P</b>	B. Lavigne, et al., "Low input power All-Optical 3R Regenerator based on SOA devices for 42.66Gbit/s ULH WDM RZ transmissions with 23dB span loss and all-EDFA amplification," PD15-1, 3 pages, Optical Society of America.	Copyright 2002
<b>Q</b>	J.P. Sokoloff, et al., "A Terahertz Optical Asymmetric Demultiplexer (TOAD)," 1041-1135/93S03.00, IEEE Photonics Technology Letters, Vol. 5, No. 7	July 1993

EXAMINER 	DAVID SPECTOR PRIMARY EXAMINER	DATE CONSIDERED <b>12/20/2004</b>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		

PTO-1449 <b>Information Disclosure Citation in an Application</b>		Application No. <b>10/723,107</b>	Applicant(s) <b>Mohammed N. Islam et al.</b>
		Docket Number <b>074036.0125</b>	Group Art Unit Filing Date <b>November 25, 2003</b>

**U.S. PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<b>A</b>						

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
<b>B</b>						

**NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
<b>C</b>	C. Bintjas, et al., "20 Gb/s All-Optical XOR with UNI Gate," IEEE Photonics Technology Letters, Vol. 12, No. 7, 3 pages	July 2000
<b>D</b>	T. Houbavlis, et al., "10Gbit/s all-optical Boolean XOR with SOA fibre Sagnac gate," Electronics Letters, Vol. 35, No. 19, 2 pages	September 16, 1999
<b>E</b>	Y-H. Kao, et al., "100 Gb/s optical switching using a symmetric semiconductor switch," Department of Electrical Engineering and Computer Science, University of Michigan, Photonics Technology Letters, Manuscript No. 6624, 12 pages	November 16, 1998
<b>F</b>	R.A. Barry, et al., "All-Optical Network Consortium-ultrafast TDM networks," IEEE Journal on Selected Areas in Communications, vol. 14, no. 5, pp. 999-1013	1996
<b>G</b>	S. Benedetto, et al., "Multilevel polarization modulation using a specifically designed LiNbO <sub>3</sub> device," IEEE Photonics Technology Letters, vol. 6 pp. 949-951	Aug. 1994
<b>H</b>	S. Benedetto, et al., "Direct-detection of optical digital transmission based on polarization shift keying modulation," IEEE Journal Selected Areas Communications, vol. 13, pp. 531-542	April; 1995
<b>I</b>	S. Benedetto, et al., "Polarization recovery in optical polarization shift-keying systems," IEEE Trans. Communications, vol. 45, pp. 1269-1279	Oct. 1997
<b>J</b>	S. Betti, et al., "Multilevel coherent optical-system based on stokes parameters modulation," Journal of Lightwave Technology, vol. 8, pp. 1127-1136	July 1990
<b>K</b>	D.J. Blumenthal, et al., "All-optical label swapping networks and technologies," Journal of Lightwave Technology, vol. 18, pp. 2058-2075	Dec. 2000
<b>L</b>	O. Boyraz, et al., "Demonstration and performance analysis for the off-ramp portion of an all-optical access node," Journal of Lightwave Technology, vol. 17, pp. 998-1010	June 1999
<b>M</b>	A. Carena, et al., "OPERA: An Optical Packet Experiment Routing Architecture with Label Swapping Capability," Journal of Lightwave Technology, vol. 16, no. 12, pp. 2135-2145	Dec. 1998
<b>N</b>	S. Chaudhuri, et al., "On the Value of Optical-layer Reconfigurability in IP-Over-WDM Lightwave Networks," IEEE Photonics Technology Letters, vol. 12, pp. 1097-1099	Aug. 2000
<b>O</b>	S. Fischer, et al., "Optical 3R regenerator for 40 Gbit/s network," Electronics Letters, vol. 35, pp. 2047-2049	Nov. 2000
<b>P</b>	T. Fjelde, et al., "Novel scheme for efficient label-swapping using simple XOR gate," European Conference on Optical Communication (ECOC), Paper no. 10.4.2, pp. 63-64, Munich, Germany	Sept. 2000
<b>Q</b>	T. Fjelde, et al., "Demonstration of 20 Gbit/s all-optical logic XOR in integrated SOA-based interferometric wavelength converter", Electronics Letters, vol. 36, pp. 1863-1864	Oct. 2000

EXAMINER <i>DAVID SPECTOR</i>	DATE CONSIDERED <i>12/20/2004</i>
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PTO-1449 <b>Information Disclosure Citation in an Application</b>		Application No. <b>10/723,107</b>	Applicant(s) <b>Mohammed N. Islam et al.</b>
		Docket Number <b>074036.0125</b>	Group Art Unit <b>2873</b>
		Filing Date <b>November 25, 2003</b>	

**U.S. PATENT DOCUMENTS**

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**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
	B						

**NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
C	S.A. Hamilton, et al., "40-Gb/s all-optical packet synchronization and address comparison for OTDM networks," IEEE Photonics Technology Letters, vol. 14, pp. 209-211	Feb. 2002
D	H.C. Ji, et al., "Effect of Polarization Dependent Loss on Polarization-Shift-Keying Transmission Systems," Optical Components and Transmission Systems, SPIE Vol. 4906, pp 313-318	2002
E	S.J.B. Yoo, et al., "Rapidly switching all-optical packet routing system with optical-label swapping incorporating tunable wavelength conversion and a uniform-loss cyclic frequency AWGR," IEEE Photonics Technology Letters, vol. 14, pp. 1211-1213	Aug. 2002
F	Y.H. Kao, "Ultrafast Optical Switching Using Semiconductors for High-Speed Communication Systems," PhD Physics Thesis, University of Michigan	1998
G	Y.H. Kao, et al., "Limitations on ultrafast optical switching in a semiconductor laser amplifier operating at transparency current," Journal of Applied Physics, vol. 86, pp. 4740-4747	Nov. 1999
H	J.H. Kim, et al., "All-Optical XOR Gate Using Semiconductor Optical Amplifiers Without Additional Input Beam," IEEE Photonics Technology Letters, vol. 14, pp. 1436-1438	Oct. 2002
I	A. Lattes, et al., "An Ultrafast All-Optical Gate", IEEE Journal of Quantum Electronics, Vol. 19, pp. 1718-1723	Nov. 1983
J	J.J. Lepley, et al., "Excess penalty impairments of polarization shift keying transmission format in presence of polarization mode dispersion," Electronics Letters, vol. 36 pp. 736-737	April 2000
K	Y.M. Lin, et al., "A novel optical label swapping technique using erasable optical single-sideband subcarrier label," IEEE Photonics Technology Letters, vol. 12, pp. 1088-1090	Aug. 2000
L	B. Meagher, et al., "Design and implementation of ultra-low latency optical label switching for packet-switched WDM networks," Journal Of Lightwave Technology, vol. 18, no. 12, pp. 1978-1987	Dec. 2000

EXAMINER 	DATE CONSIDERED <b>12/20/2004</b>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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		Docket Number	Group Art Unit	Filing Date
		074036.0125	2873	November 25, 2003

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
B						YES
						NO

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
C	P. Ohlen, et al., "All-optical header erasure and penalty-free rewriting in a fiber-based high-speed wavelength converter," IEEE Photonics Technology Letters, vol. 12, pp. 663-665	June 2000
D	B.S. Robinson, et al., "Demultiplexing of 80-Gb/s Pulse-Position Modulated Data With an Ultrafast Nonlinear Interferometer," IEEE Photonics Technology Letters, vol. 14, pp. 206-208	Feb 2002
E	C. Schubert, et al., "160-gb/s all-optical demultiplexing using a gain-transparent ultrafast-nonlinear interferometer (GT-UNI)," IEEE Photonics Technology Letters, vol. 13, pp. 475-477	May 2001
F	C. Schubert, et al., "Error-free all-optical add-drop multiplexing at 160 Gbit/s," Optical Fiber Communication Conference, PD-17, Atlanta, GA, USA	Mar. 2003
G	A.S. Siddiqui, et al., "Dispersion-tolerant transmission using a duobinary polarization-shift keying transmission scheme," IEEE Photonics Technology Letters, vol. 14, pp. 158-160	Feb. 2002
H	K.E. Stubkjaer, "Semiconductor Optical Amplifier-Based All-Optical Gates for High-Speed Optical Processing," IEEE Journal Selected Topics of Quantum Electronics, vol. 6, pp. 1428-1435	Nov/Dec. 2000
I	T.J. Xia, et al., "Novel Self-Synchronization Scheme for High-Speed Packet TDM Networks," IEEE Photonics Technology Letters, vol. 11, pp. 269-271	Feb. 1998
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EXAMINER <i>DS</i>	DATE CONSIDERED <i>12/20/2004</i>
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NON-PATENT DOCUMENTS							
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE	
D/S	H	M.N. Islam, "Ultrafast Fiber Switching Devices and Systems," Cambridge Studies in Modern Optics 12, Cambridge University Press, Cambridge, UK, ISBN 0 521 43191 3, 5 pages					Aug 1992
D/S	I	O. Leclerc, et al., "All-Optical Regeneration: Principles and WDM Implementation," Chapter 15, Optical Fiber Telecommunications IV A Components, Elsevier Science, Academic Press, San Diego, CA					2002
D/S	J	N. McKeown, "Weren't routers supposed to be simple?" Informal talk at the International Computer Science Institute (ICSI), available: <a href="http://tiny-tera.stanford.edu/~nickm/talks/ICSI_May_2002.ppt">http://tiny-tera.stanford.edu/~nickm/talks/ICSI_May_2002.ppt</a> , 23 pages					May 2002
D/S	K	V.W.S. Chan, et al., "Architectures and Technologies for High-Speed Optical Data Networks," Journal of Lightwave Technology, Vol. 16, No. 12, 23 pages					December 1998
D/S	L	N. Susa, et al., "Enhancement of change in the refractive index in an asymmetric quantum well," Applied Physics Letters, Vol. 60 (20), 3 pages					May 18, 1992
D/S	M	J.R. Sauer, et al., "A Soliton Ring Network," Journal of Lightwave Technology, Vol. 11, No. 12, 9 pages					December 1993
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EXAMINER <i>DAVID SPECTOR</i>		DAVID SPECTOR PRIMARY EXAMINER		DATE CONSIDERED <i>12/20/2004</i>			
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